

GenCore version 4.5									
Copyright (c) 1993 - 2000 Compugen Ltd.									
OM protein - protein search, using sw model									
Run on: January 7, 2002, 16:05:25 ; Search time 77.81 seconds									
(without alignments) 21.676 Million cell updates/sec									
Title: US-08-569-749-8	Sequence: 267 LAKGGFYIIGPDRRVACFAC... WEPKDQNAKSEHRLRHPKCPP 46	Scoring table: BLOSUM62	Score: 100059	Gapext: 0.5	Length: 0	DB: SwissProt_39.*	Database: SwissProt_39.*	Alignments: 53.5	Time: 20.0
Searched: 100059 seqs, 36664827 residues									
Total number of hits satisfying chosen parameters: 100059									
Minimum DB seq length: 0									
Maximum DB seq length: 2000000000									
Post-processing: Minimum Match 0%									
Maximum Match 100%									
Listing first 45 summaries									
Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.									
SUMMARIES									
result	NO.	Score	Query	#	Match	Length	DB	ID	Description
1	267	100.0	604 1 BIR2_HUMAN	013489	homo sapien				BIR2_HUMAN
2	254	1	PIAP_PIG	0358	sus scrofa				STANDARD:
3	248	92.9	618 1 BIR3_HUMAN	013490	homo sapien				PRT: 604 AA.
4	242	92.5	612 1 BIR3_MOUSE	062210	mus musculus				ID: 01-Nov-1997 (rel. 35, Last sequence update)
5	235	88.0	600 1 BIR2_MOUSE	088863	mus musculus				DT: 01-Nov-1997 (rel. 35, Last sequence update)
6	186	69.7	611 1 BIR_CHICK	090660	gallus gallus				DT: 20-AUG-2001 (rel. 40, Last annotation update)
7	182	68.2	497 1 BIR_HUMAN	088170	homo sapien				DE: PROTEIN 1 (IAP1) (IAP1-1) (C-IAP2) (TNFR2-TRAF SIGNALING COMPLEX
8	177	66.3	496 1 BIR_MOUSE	060989	mus musculus				DE: PROTEIN 1) (IAP HOMOLOG C)
9	175	65.5	496 1 BIR_RAT	090165	rat				GN: IAP2 OR AIL1 OR IAP1 OR MHC.
10	145	54.3	498 1 IAP_DROME	024307	drosophila				OS: Homo sapiens (human).
11	141	52.8	1402 1 BIRG_MOUSE	09163	mus musculus				OC: Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Butharia; Primates; Catarrhini; Hominidae; Homo; OX: NCBI_TAXID:9606;
12	141	52.8	1403 1 BIRL_HUMAN	023075	homo sapien				RN: [1]
13	141	52.8	1403 1 BIRL_MOUSE	090216	mus musculus				RN: SEQUENCE FROM N.A.
14	141	52.8	1403 1 BIRL_RAT	090165	rat				RN: TISSUE:LIVER;
15	141	52.8	1403 1 BIRL_MOUSE	090165	mus musculus				RN: MEDLINE:96128127; PubMed:8552191;
16	138	51.7	1407 1 BIRL_MOUSE	090165	mus musculus				RA: Liston P., Roy N., Tzani K., Lefebvre C., Baird S., Cherton-Horvat G., RFA: Farhani R., McLean J., Mackenzie A., Korneluk R.G.;
17	135	50.6	268 1 IAP_NP00	090165	rat				RT: "Suppression of apoptosis in mammalian cells by NAIP and a related family of IAP genes.",
18	131	49.1	268 1 IAP_GVCP	024307	drosophila				RT: Nature 379:349-353(1996).
19	129	43.8	1403 1 BIRL_HUMAN	090216	homo sapien				RN: SEQUENCE FROM N.A.
20	122.5	43.9	429 1 BIR6_HUMAN	090169	homo sapien				RN: TISSUE:FAECAL LIVER;
21	112	41.9	239 1 BIRP_IRV6	047732	chilio iride				RN: MEDLINE:9609843; PubMed:8643514;
22	105.5	39.5	140 1 BIR5_MOUSE	090201	mus musculus				RA: Oren A.G., Pakusch M., Hawkins C.J., Polis K.L., Vaux D.L.;
23	105.5	39.5	142 1 BIR5_RAT	090165	rat				RT: "Cloning and expression of apoptosis inhibitory protein homologs that function to inhibit apoptosis and/or bind tumor necrosis factor receptor-associated factors";
24	103	38.6	997 1 BIRL_SHPO	014054	schizosaccharomyces pombe				RT: Proc. Natl. Acad. Sci. U.S.A. 93:4974-4978(1996).
25	93	38.6	286 1 IAP_NP00	024306	homo sapien				RN: SEQUENCE FROM N.A.
26	92.5	34.6	142 1 BIRL_HUMAN	015392	homo sapien				RN: MEDLINE:99120506; PubMed:10233894;
27	90	33.7	275 1 IAPL_ASB7	001029	oryctes pocu				RA: Horrevoets A.J., Fontijn R.D., van Zonneveld A.J., de Vries C.J.,
28	72.5	27.2	224 1 IAPL_ASFB1	001153	afriican swi				RA: Horrevoets A.J., Fontijn R.D., van Zonneveld A.J., de Vries C.J.,
29	69.5	26.0	224 1 IAPL_ASFB3	011452	afriican swi				RT: "Vascular endothelial genes that are responsive to tumor necrosis factor-alpha in vitro are expressed in atherosclerotic lesions, including inhibitor of apoptosis protein-1, scanin, and two novel genes.",
30	66.5	24.9	224 1 IAPL_ASFB	011451	afriican swi				RT: Blood 93:3118-3431(1999).
31	66.5	24.9	224 1 IAPL_ASFB	012407	afriican swi				CC: FUNCTION: APOTOPIC SUPPRESSOR. THE BIR MOTIFS REGION INTERACTS WITH THE RECEPTOR ASSOCIATED FACTORS 1 AND 2 (TRAF1 AND TRAF2) TO FORM AN HETEROGENEOUS COMPLEX, WHICH IS THEN RECRUITED TO THE TUMOR NECROSIS FACTOR RECEPTOR 2 (TNFR2).
32	66.5	24.9	238 1 IAPL_ASFB	014453	afriican swi				CC: SURFACE-LOCATION: CYTOSOLIC (POTENTIAL).
33	60	22.5	249 1 IAPL_NP00	014454	autographa				CC: TISSUE-SPECIFICITY: HIGHLY EXPRESSED IN FETAL LUNG, AND KIDNEY. IN

DR EMBL: AP242433; AAH82749; 1; -.
 DR MGI: 1888256; BIR; 3.
 DR InterPro: IPR001370; BIR.
 DR Pfam: PF00653; BIR; 3.
 DR SMART: SM02328; BIR; 3.
 DR PROSITE: PS01282; BIR_REPEAT_1; 2.
 DR PROSITE: PS01413; BIR_REPEAT_2; 3.
 KW Apoptosis; Repeat; Multi-gene family.
 FT REPEAT 60 127 BIR 1.
 FT REPEAT 159 227 BIR 2.
 FT REPEAT 278 345 BIR 3.
 SO SEQUENCE 1402 AA; 159662 MW; CIDFFBA359893E0D CRC64;

Query Match 52.8%; Score 141; DB 1; Length 1402;
 Best Local Similarity 52.2%; Pred. No. 1.8e-10;
 Matches 24; Conservative 5; Mismatches 17; Indels 0; Gaps 0;
 ID 1 LAKAGFYVIGCDPGRVACFAGGKLSSWEPDNAMESHLRHPKCPF 46
 AC 013075; Q13730; 099796; 07857; 01-Nov-1997 (Rel. 35; Created)
 DT 20-AUG-2001 (Rel. 40; Last sequence update)
 DE BACULOVIRAL IAP REPEAT-CONTAINING PROTEIN 1 (NEURONAL APOPTOSIS INHIBITOR PROTEIN).
 DE BIRC1 OR NAIP.
 OS Homo sapiens (Human).
 OC Bivalvia; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
 RN [1]
 RP SEQUENCE FROM N.A.
 RC TISSUE-Fetal brain;
 RX MEDLINE: "511344; PubMed:7813013;
 RA Roy N., Mahadevan M.S., McLean M., Shuster G., Yaraghi Z.,
 RA Farahani R., Baird S., Besner-Johnston A., Lefebvre C., Kang X.,
 RA Salih M., Aubry H., Tamai K., Guan X., Itohno P., Crawford T.O.,
 RA de Jong P. J., Surh L., Ikeda J., Korneluk R.G., Mackenzie A.,
 RA "The gene for neuronal apoptosis inhibitory protein is partially
 RT deleted in individuals with spinal muscular atrophy.;"
 RT Call 80:157-178(1995).
 RN [2]
 RP SEQUENCE FROM N.A., AND REVISIONS.
 RC TISSUE-Brain;
 RX MEDLINE: "8163755; PubMed:950305;
 RA Chen Q., Baird S.D., Mahadevan M., Besner-Johnston A., Farahani R.,
 RA Xian J.-Y., Kang X., Lefebvre C., Ikeda J.-E., Korneluk R.G.,
 RA Mackenzie A.R.;
 RT "Sequence of a 131-kb region of 5q13.1 containing the spinal muscular
 RT atrophy candidate genes SMN and NAIP.;"
 RT Genomics 48:121-127(1998).
 RN [3]
 RP SEQUENCE OF 386-623 FROM N.A.
 RA der Steeg G., Braatjers T.G., Grootenhuis P.M., Osinga J.,
 RA Anzvinio R., Velona I., Braha C., Schaeffer H., van Ommen G.J.B.,
 RA Buys C.H.C.M.,
 RL Submitted (MAY-1995) to the EMBL/GenBank/DBJ databases.
 RN [4]
 RP SEQUENCE OF 222-1403 FROM N.A.
 RA Jones K., Graves T., McPherson J.,
 RL Submitted (JUN-1998) to the EMBL/GenBank/DBJ databases.
 RN [5]
 RP FUNCTION Liver;
 RC TISSUE-Liver;
 RX MEDLINE: "8614249; PubMed:8552191;
 RA Liston P., Roy N., Tamai K., Lefebvre C., Baird S., Chertom-Horvat G.,

RA Parahami R., McLean M., Ikeda J., Mackenzie A., Korneluk R.G.;
 RT "Suppression of apoptosis in mammalian cells by NAIP and a related
 family of IAP genes.;"
 RT Nature 377:349-353(1996).
 RL -1- FUNCTION: PREVENTS MOTOR-NEURON APOPTOSIS INDUCED BY A VARIETY OF
 CC SIGNALS.
 CC -1- TISSUE_SPECIFICITY: EXPRESSED IN MOTOR NEURONS, BUT NOT IN SENSORY
 CC NEURONS. FOUND IN LIVER AND PLACENTA, AND IN A LESSER EXTENT IN
 CC SPINAL CORD.
 CC -1- DISEASE: MUTATED OR DELETED FORMS OF NAIP HAVE BEEN FOUND IN
 CC INDIVIDUALS WITH SPINAL MUSCULAR ATROPHY TYPE I (SMA TYPE 1). SMAS
 CC ARE RARE AUTOSOMAL RECESSIVE DISORDERS SUBCLASSIFIED AS TYPE 1
 CC (WERMING-HOFMANN DISEASE). TYPE II (INTERMEDIATE FORM) AND TYPE
 CC III (WOLFGART-KUGELBERG-WELANDER DISEASE) BASED UPON THE AGE OF
 CC ONSET AND CLINICAL SEVERITY. THESE NEURODEGENERATIVE DISORDERS ARE
 CC CHARACTERIZED BY DEGENERATION OF LOWER MOTOR NEURONS, LEADING TO
 CC NEWBORNS
 CC -1- SIMILARITY: CONTAINS 3 BIR REPEATS
 CC
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 CC or send an email to license@isb-sib.ch).
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 DR EMBL: U19251; AAC52045; 1.
 DR EMBL: U80017; AAC52047; 1.
 DR EMBL: U21213; AAC66504; 1.
 DR EMBL: AC005031; AAC62261; 1.
 DR MM: 600353;
 DR InterPro: IPR001370; BIR.
 DR Pfam: PF00653; BIR; 3.
 DR SMART: SM00238; BIR; 3.
 DR PROSITE: PS01282; BIR_REPEAT_1; 3.
 DR PROSITE: PS5043; BIR_REPEAT_2; 3.
 KW Apoptosis; Repeat.
 FT REPEAT 60 127 BIR 1.
 FT REPEAT 159 227 BIR 2.
 FT REPEAT 278 345 BIR 3.
 FT CONFLICT 222 223 PK -> YR (IN REF. 4).
 FT CONFLICT 386 387 VP -> ST (IN REF. 3).
 FT CONFLICT 535 535 M -> V (IN REF. 3).
 FT CONFLICT 553 553 Y -> H (IN REF. 3).
 FT CONFLICT 1228 1231 MISSING (IN REF. 4).
 SO SEQUENCE 1403 AA; 159613 MW; 566304C154DAE564 CRC64;

Query Match 52.8%; Score 141; DB 1; Length 1403;
 Best Local Similarity 52.2%; Pred. No. 1.8e-10;
 Matches 24; Conservative 6; Mismatches 16; Indels 0; Gaps 0;
 ID 1 LAKAGFYVIGCDPGRVACFAGGKLSSWEPDNAMESHLRHPKCPF 46
 AC 013075; Q13730; 099796; 07857; 01-Aug-2001 (Rel. 40; Last sequence update)
 DT 20-AUG-2001 (Rel. 40; Last annotation update)
 DE BACULOVIRAL IAP REPEAT-CONTAINING PROTEIN 1A NEURONAL APOPTOSIS
 DE INHIBITOR PROTEIN 1.
 DE BIRC1A OR NAIP1 OR NAIP.
 GN Mus musculus (Mouse).
 OS Eukaryota; Metazoa; Chordata; Craniata; Vertebrates; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OC NCBI_TaxID=10090;

RN [1] RP INHIBITORY PROTEIN 5; NAIP-53.
 RP SEQUENCE FROM N.A.
 RA Varaghi Z., Korneluk R.G., Mackenzie A.E.;
 RT Cloning and characterization of the multiple copies of the murine
 RT homologue of NAIP (neuronal apoptosis inhibitory protein).;
 RL Submitted (JUN-1997) to the EMBL/GenBank/DBJ databases.
 RN [2] RP SEQUENCE FROM N.A.
 RX MEDLINE-#9431676; PubMed-10501978;
 RA Huang S., Scharf J.M., Grawney J.D., Endrizzi M.G., Dietrich W.F.;
 RT "The mouse Naip gene cluster on Chromosome 13 encodes several distinct
 RT functional transcripts.";
 RL Mamm. Genome 10:1032-1035(1999).
 RN [3] RP SEQUENCE FROM N.A.
 RX MEDLINE-#0414747; PubMed-1058627;
 RA Endrizzi M.G., Hadinoto V., Grawney J.D., Miller W., Dietrich W.F.;
 RT "Genomic sequence analysis of the mouse Naip gene array.";
 RL Genome Res. 10:1095-1102(2000);
 CC -!- FUNCTION: PREVENTS MOTOR-NEURON APOPTOSIS INDUCED BY A VARIETY OF
 CC SIGNALS.
 CC -!- SIMILARITY: CONTAINS 3 BIR REPEATS.
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 or send an email to license@sb-sib.ch).
 CC
 EMBL: AF007769; AAC656223; 1; -.
 DR EMBL: AF242432; AAC62752; 1; -.
 DR MGD: MGI:1298223; Bircia.
 DR Interpro: IPR00170; BIR.
 DR SMART: SM00238; BIR; 3.
 DR PROSITE: PS0282; BIR_REPEAT_1; 1.
 DR PROSITE: PS0143; BIR_REPEAT_2; 3.
 KW Apoptosis; Repeat; Multigene family.
 FT REPEAT 60 127 BIR 1.
 FT REPEAT 159 227 BIR 2.
 FT REPEAT 345 345 BIR 3.
 FT CONFLICT 343 1 -> V (IN REF. 2).
 FT CONFLICT 359 359 L -> Q (IN REF. 2).
 FT CONFLICT 624 624 E -> K (IN REF. 2).
 FT CONFLICT 1092 1092 D -> E (IN REF. 3).
 FT CONFLICT 1116 1116 D -> N (IN REF. 3).
 FT CONFLICT 1123 1123 G -> R (IN REF. 3).
 FT CONFLICT 1129 1129 L -> H (IN REF. 1).
 FT CONFLICT 1140 1140 T -> M (IN REF. 2).
 FT CONFLICT 1269 1269 A -> V (IN REF. 3).
 SQ SEQUENCE 1403 AA; 158692 MW; B31630259595EE67 CRC64;
 Query Match 52.8%; Score 141; DB 1; Length 1403;
 Best Local Similarity 52.2%; Pred. No. 1; 8e-10;
 Matches 24; Conservative 5; Mismatches 17; Indels 0; Gaps 0;
 ID QY 1 LAKQFVYIYGPDGRVACPGCGKLSNWPKDNAMSEHLRHPKCPF 46
 ID 1: ||| : | | | 1:111 | | | 1: | 1: 111 | 226
 Db 181 LSAAGFVFGRDTVOCPSCGGSLGNWEGDDPPWHEKWPKCF
 DE BACULOVIRAL IAP REPEAT-CONTAINING PROTEIN 1E (NEURONAL APOPTOSIS

DE INHIBITORY PROTEIN 5; NAIP-53.
 DE BIRC1E OR NAIP5 OR NAIP-53.
 DE GN
 DE OS MUS MUSCULUS (Mouse).
 DE OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 DE OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 DE OC
 DE RN [1] RP SEQUENCE FROM N.A.
 RX MEDLINE-#9431676; PubMed-10501978;
 RA Huang S., Scharf J.M., Grawney J.D., Endrizzi M.G., Dietrich W.F.;
 RT "The mouse Naip gene cluster on Chromosome 13 encodes several distinct
 RT functional transcripts.";
 RL Mamm. Genome 10:1032-1035(1999).
 RN [2] RP SEQUENCE FROM N.A.
 RX MEDLINE-#9431676; PubMed-1058627;
 RA Endrizzi M.G., Hadinoto V., Grawney J.D., Miller W., Dietrich W.F.;
 RT "Genomic sequence analysis of the mouse Naip gene array.";
 RL Genome Res. 10:1095-1102(2000);
 CC -!- FUNCTION: PREVENTS MOTOR-NEURON APOPTOSIS INDUCED BY A VARIETY OF
 CC SIGNALS.
 CC -!- SIMILARITY: CONTAINS 3 BIR REPEATS.
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 or send an email to license@sb-sib.ch).
 CC
 EMBL: AF131205; AAC656760; 1; -.
 DR EMBL: AF242432; AAC62752; 1; -.
 DR MGD: MGI:1298223; Bircia.
 DR Interpro: IPR001370; BIR.
 DR SMART: SM00238; BIR; 3.
 DR PROSITE: PS0143; BIR_REPEAT_1; 2.
 DR PROSITE: PS0143; BIR_REPEAT_2; 3.
 KW Apoptosis; Repeat; Multigene family.
 FT REPEAT 60 127 BIR 1.
 FT REPEAT 159 227 BIR 2.
 FT REPEAT 345 345 BIR 3.
 FT CONFLICT 92 92 K -> R (IN REF. 1).
 FT CONFLICT 144 144 S -> R (IN REF. 1).
 FT CONFLICT 242 242 S -> G (IN REF. 2).
 FT CONFLICT 472 472 T -> A (IN REF. 2).
 FT CONFLICT 516 516 A -> D (IN REF. 2).
 FT CONFLICT 521 521 A -> T (IN REF. 2).
 FT CONFLICT 533 533 V -> A (IN REF. 2).
 FT CONFLICT 538 538 S -> I (IN REF. 2).
 FT CONFLICT 1092 1092 E -> D (IN REF. 2).
 FT CONFLICT 1129 1129 H -> L (IN REF. 2).
 FT CONFLICT 1137 1137 R -> D (IN REF. 2).
 FT CONFLICT 1242 1242 V -> I (IN REF. 2).
 FT CONFLICT 1275 1275 D -> N (IN REF. 2).
 SQ SEQUENCE 1403 AA; 159695 MW; B27f645043BEC42 CRC64;

Query Match 52.8%; Score 141; DB 1; Length 1403;
 Best Local Similarity 52.2%; Pred. No. 1.8e-10; Mismatches 0;
 Matches 24; Conservative 5; Mismatches 17; Indels 0; Gaps 0;
 Oy 1 LAKAGFYVPGDRACAGKLSPWEKDNAMSEHLRHPKCPF 46
 Db 181 LSAGGFFFTGRDTVOCSCCGSLSGWEEGDPKHEAKWPKCEP 226

Search completed: January 7, 2002, 16:05:25
 Job time: 1404 sec

RESULT 15
 BIRF_MOUSE
 ID _BIRF_MOUSE STANDARD PRT: 1403 AA.
 AC Q9JIB6; P81704; 009122; 009121;
 DT 20-AUG-2001 (Rel. 40, last sequence update)
 DT 20-AUG-2001 (Rel. 40, last annotation update)
 DE BACLOVIRAL IAP REPEAT-CONTAINING PROTEIN 1F (NEURONAL APOPTOSIS
 DE INHIBITORY PROTEIN 6)
 GN BIRF OR NAIP OR NAIP-RS4.
 OS Mus musculus (Mouse);
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 NCBI; M.G.; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE-201477; PubMed-10958627;
 RA Endrizzi M.G., Hadinoto V., Grawney J.D., Miller W., Dietrich W.F.;
 RL "Genomic sequence analysis of the mouse Naip gene array.";
 RN [2]
 RP SEQUENCE OF 82-168 FROM N.A.
 RX STRAIN=29/SVJ;
 MEDLINE-97131520; PubMed-8975718;
 RA Kunkel L.M., Dietrich W.F.;
 RT Scherf J.M., Damron D., Frisella A., Bruno S., Beggs A.H.,
 CC "The mouse region syntetic for human spinal muscular atrophy lies
 within the Igln1 critical interval and contains multiple copies of Naip
 exon 5.";
 RL Genomics 38:405-417(1996).
 CC -1- FUNCTION: PREVENTS MOTOR-NEURON APOPTOSIS INDUCED BY A VARIETY OF
 CC SIGNALS.
 CC -1- SIMILARITY: CONTAINS 3 BIR REPEATS.
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 CC -----
 DR EMBL; AP242431; AAC52975.1; -.
 DR EMBL; MGD:1298222; BIR.
 DR InterPro; IPR001370; BIR.
 DR Pfam; PF00653; BIR; 3.
 DR SMART; SM00238; BIR.
 DR PROSITE; PS01282; BIR_REPEAT_1; 2.
 DR PROSITE; PS01143; BIR_REPEAT_2; 3.
 KW Apoptosis; Repeat; Multigene family.
 PT REPEAT 60 127 BIR 1.
 PT REPEAT 159 227 BIR 2.
 PT REPEAT 278 345 BIR 3.
 SQ SEQUENCE 1403 AA; 159823 MW; 9d4912503358C4E9 CRC64;

Query Match 52.8%; Score 141; DB 1; Length 1403;
 Best Local Similarity 52.2%; Pred. No. 1.8e-10; Mismatches 0;
 Matches 24; Conservative 5; Mismatches 17; Indels 0; Gaps 0;

Oy 1 LAKAGFYVPGDRACAGKLSPWEKDNAMSEHLRHPKCPF 46
 Db 181 LSAGGFFFTGRDTVOCSCCGSLSGWEEGDPKHEAKWPKCEP 226

